

ABSTRACT**PHARMACEUTICAL FORMULATIONS FOR THE PROLONGED
RELEASE OF INTERLEUKINS AND THEIR THERAPEUTIC
APPLICATIONS**

The present invention relates to novel pharmaceutical formulations based on stable, fluid aqueous colloidal suspensions for the prolonged release of an interleukin (IL) (and one or more other possible active principles), and to the applications, especially therapeutic applications, of these formulations.

The object of the invention is to propose a fluid pharmaceutical formulation for the prolonged release of interleukin(s) (and one or more other possible active principles) that makes it possible, after parenteral injection, significantly to increase the *in vivo* release time of the IL while at the same time reducing the plasma concentration peak of this IL, said formulation furthermore being stable on storage and also being biocompatible, biodegradable, non-toxic and non-immunogenic and having a good local tolerance.

The formulation according to the invention is an aqueous colloidal suspension of low viscosity based on submicronic particles of water-soluble biodegradable polymer PO carrying hydrophobic groups (HG), said particles being non-covalently associated with at least one interleukin (and one or more other possible active principles) and forming a gelled deposit at the injection site, this gelling being caused by a protein present in the physiological medium.